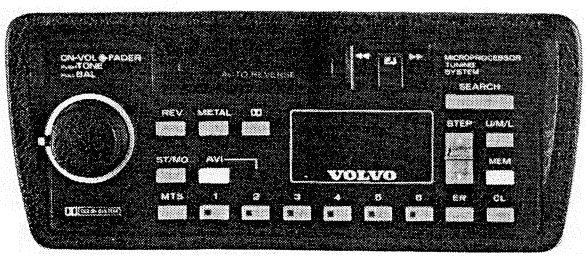
SERVICE MANUAL

VOLVO

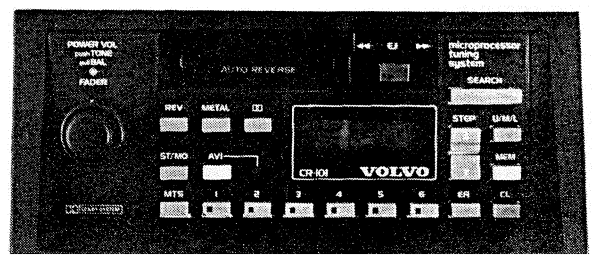
MICROPROCESSOR TUNING SYSTEM

LW/MW/FM-CASSETTE-STEREO

RX-250VQ



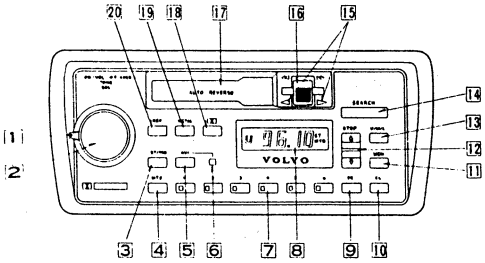
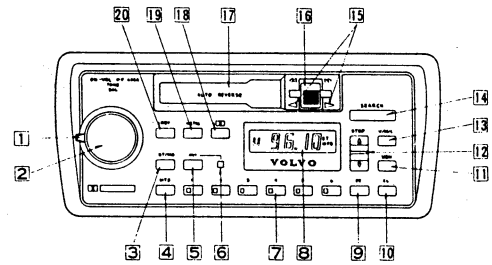
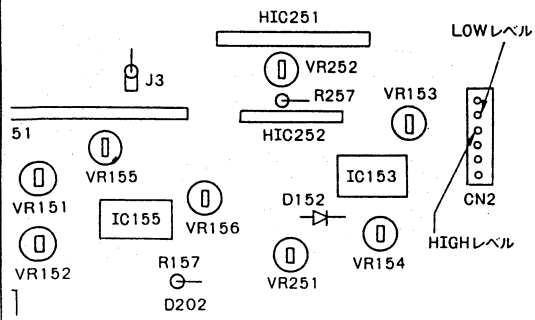
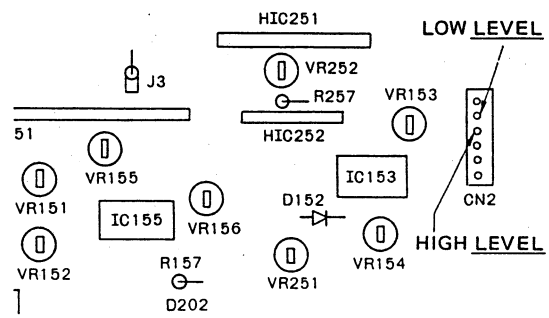
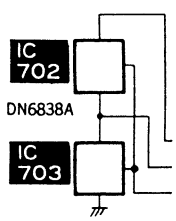
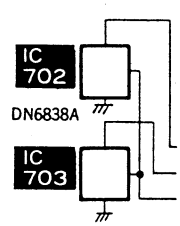
CR-101



[REVISION]

Notice:
Please refer to the original Service Manual for RX-250VQ/CR-101 for other sections.

The circuits and used parts of this unit may be changed due to the improvement of their performance, etc.

No.	PAGE (Original print)	OLD	NEW
1	1.	. Max sensitivity : FM <3.5μV MW <25μV LW <35μV	. Sensitivity : FM <2.5μV MW <25μV LW <35μV
2	2.		 Fig. 1
3	3.	7 CHANNEL SELECTOR (ℓ.9) indication of MTS twinkles fro five seconds.	indication of MTS twinkles for five seconds.
4	5.	19 METAL SWITCH (ℓ.1) When playing the metal and CrOa	When playing the metal and CrO_2 . . . .
5	7.	Fig. 2 Layout AMC	Fig. 2 Layout AM (Adj. PARTS)
6	11.		
7	13.	———	refer to Fig. A
8	14.		
9	"	ARI (x8)	AVI (x8)

PAGE (Original print)	OLD	NEW
22.	ACC [6] E [5] R [4] L [3] ARI (B) [2] ARI (C) [1] CON306 (to PWB-EQNR)	ACC [6] E [5] R [4] L [3] AVI (B) [2] AVI (C) [1] CON306 (to PWB-EQNR)
23.	IC153, 155 (LM358P)	IC153, 155, 201 (LM358P)
24.	IC951 (LA2211) ARI SYSTEM-DK TYPE	IC951 (LA2211) AVI SYSTEM-DK TYPE
25.	HIC951 (TD1001) ARI SYSTEM-SK TYPE	HIC951 (TD1001) AVI SYSTEM-SK TYPE
26.	EXPLODED VIEW 250VP (x2)	CR-101 (x2)
29.	VR952 | 127M03001 | VR SEMI 5 kΩ	VR952 | 127M03002 | VR SEMI 10 kΩ
"	VR201,301 401 | 127M03003	VR201,301 401,204 | 127M03003
"	Q102 151~154 801, 808~812 901 | 260P17501 | TR 2SC711-F	Q102 151~154 801,201 901,808~812 802,804 | 260P17501 | TR 2SC711-EF
"	IC153,155 | 266P36001 | IC LM358P	IC153,155 201 | 266P36001 | IC LM358P
"	L104,151 | 321P00107 | COIL CHOKE (6.8μH)	L104,151 | 321P00102 | COIL CHOKE (6.8μH)

BLOCK DIAGRAM

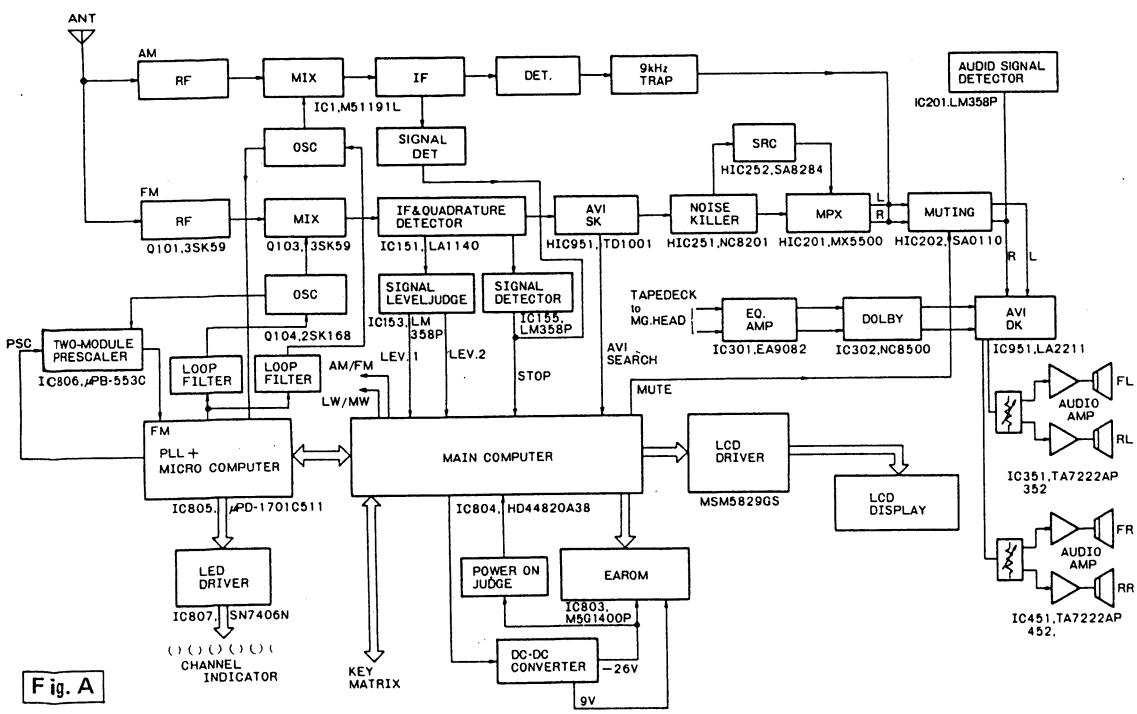
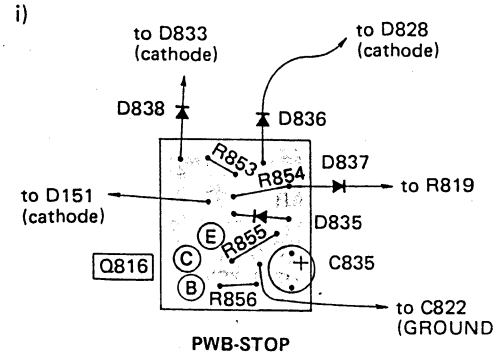
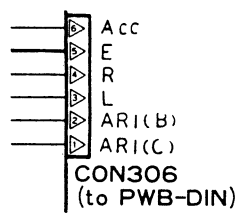
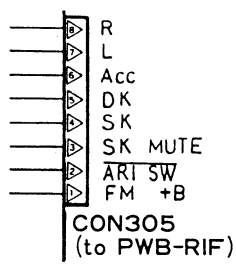
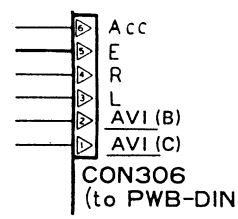
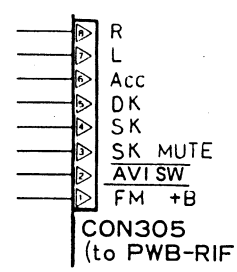
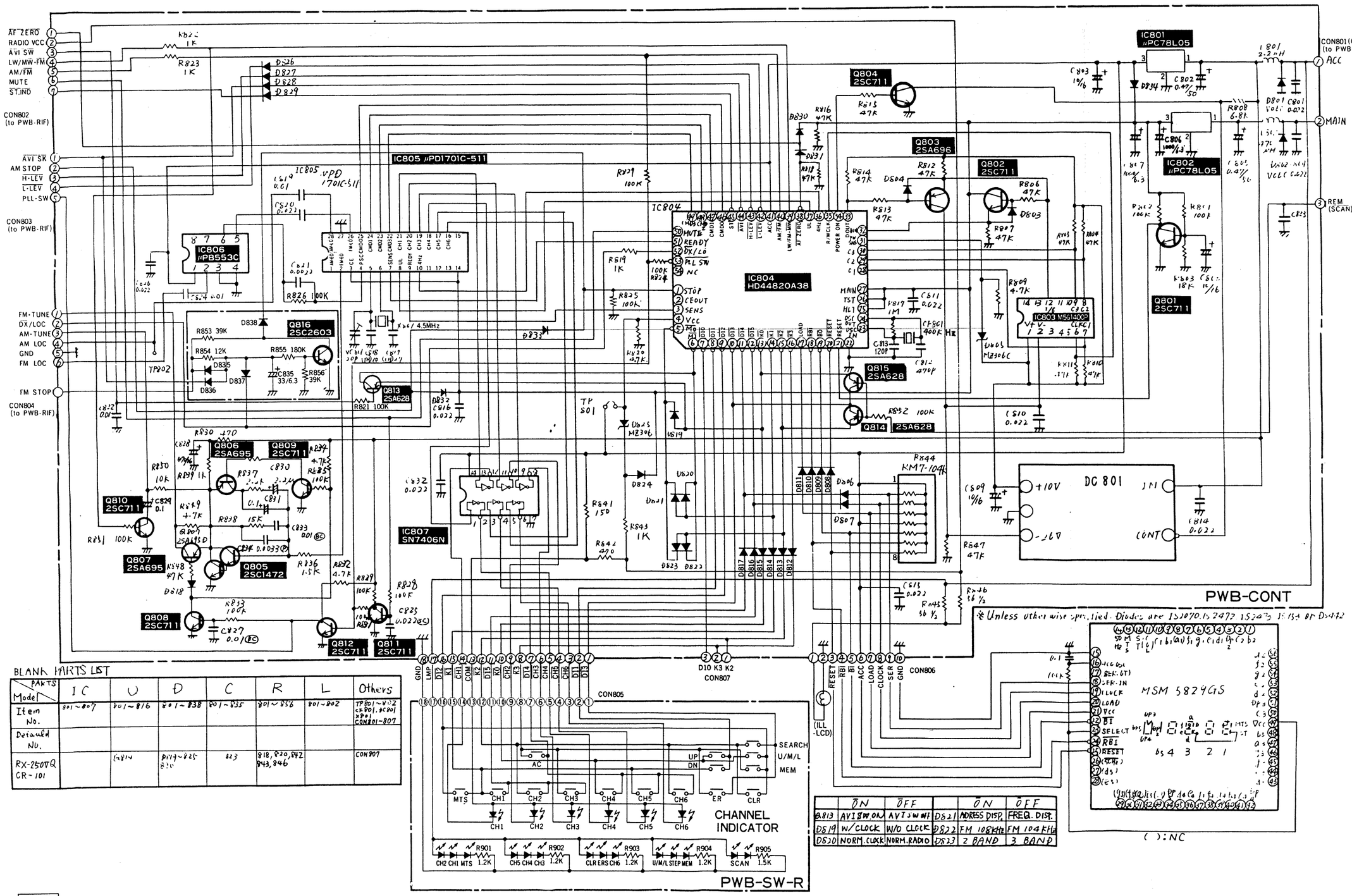


Fig. A

Printed in Japan

No.	PAGE (Original print)	OLD	NEW
10	15.	PWB-CONTROL (Table) (C822)	C 822
11	"	———	i)  ii) Included in PWB-CONTROL
12	16.	———	refer to Fig. B
13	17.	PWB-RIF (Table) (IC201) (Q201) (C215) ~(C222) (R212) ~ (R216) (R218) ~ (R223) (R225) (VR204)	IC201 Q201 C215 ~ C222 R212 ~R216 R218 ~R223 R225 VR204
14	18.	———	refer to Fig. C
15	20.	  	 
16	"	VR952 5K	VR952 10K

SCHEMATIC DIAGRAM : RX-250
PWB-CONT/SW-R



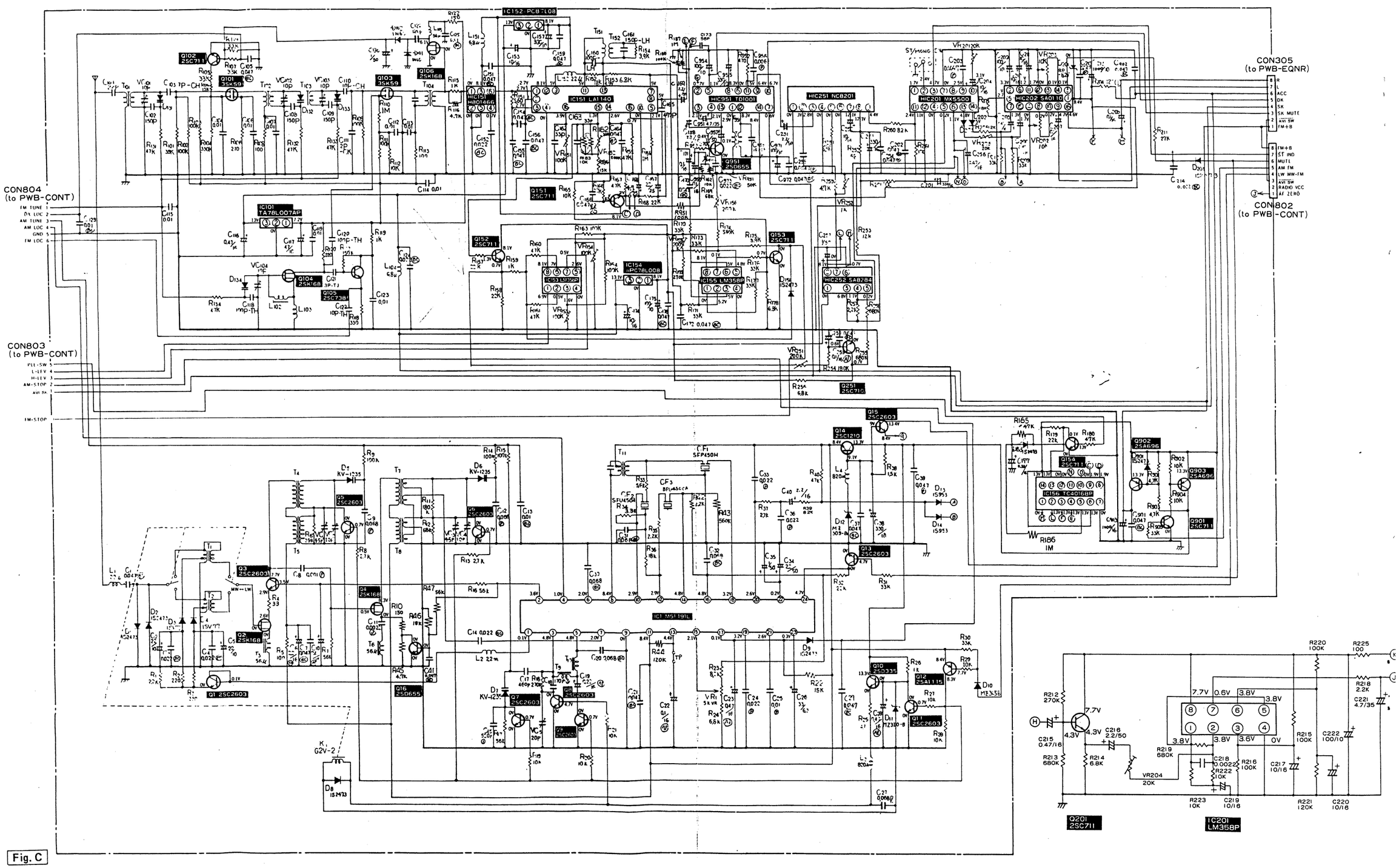
BLANK PARTS LIST

Mode \ PARTS	IC	U	D	C	R	L	Others
Item No.	801~807	801~816	801~838	801~835	801~856	801~802	TP801~802 CON801, 805 XD01 CON801~807
Defaulted No.							
RX-250TQ CR-101		(4814	D847~D855 D870	823	818, 820, 842 843, 846		CON807

	ON	OFF		ON	OFF
Q813	AVI SW ON	AVI SW OFF	D821	ADRESS DISP.	FREQ. DISP.
D819	W/CLOCK	W/O CLOCK	D822	FM 108KHz	FM 104KHz
D820	NORM. CLOCK	NORM. RADIO	D823	2 BAND	3 BAND

Fig. B

SCHEMATIC DIAGRAM : RX-250
PWB-RIF


CON804
(to PWB-CONT)
FM TUNE 1
DX LOC 2
AM TUNE 3
AM LOC 4
GND 5
FM LOC 6
CON803
(to PWB-CONT)
PLL-SW 5
L-LEV 4
H-LEV 3
AM-STOP 2
AVI SW
FM-STOP 1
CON305
(to PWB-EQNR)
R
L
ACC
DK
SK
SK MUTE
AVI SW
FM+B
CON802
(to PWB-CONT)
FM+B
ST IND
MUTE
AM FM
LW MW-FM
AVI SW
RADIO VCC
AF ZERO
IC152 PQ8TL08
IC151 LA1140
IC101 TA78L007AP
IC154 μPC78L008
IC1 M51191L
HIC951 TO1001
HIC251 NC8201
HIC201 MX5500
HIC202 SA01 10
HIC252 SA8284
IC153 LM358P
IC155 LM358P
IC201 LM358P
Q102 2SC711
Q101 2SK59
Q103 3SK59
Q106 2SK168
Q104 2SK168
Q105 2SC738
Q151 2SC711
Q152 2SC711
Q153 2SC711
Q951 2SD655
Q15 2SC2603
Q14 2SC1210
Q13 2SC2603
Q10 2SD335
Q12 2SA1115
Q11 2SC2603
Q902 2SA696
Q903 2SA696
Q901 2SC711
Q133 2SC711
Q201 2SC711
Q251 2SC710
Q1 2SC2603
Q2 2SK168
Q3 2SC2603
Q4 2SK168
Q5 2SC2603
Q6 2SC2603
Q7 2SC2603
Q8 2SC2603
Q9 2SC2603
Q16 2SD655
D1 KV-1235
D6 KV-1235
D2 1S2473
D3 1S2473
D4 1SV77
D8 1S2473
D9 1S2473
D10 MTZ5.6E
D11 MTZ10-B
D12 MA303-M
D13 1S953
D14 1S953
D201 1S2473
D902 1S2473
D901 1S2473
D133 1S2473
CF1 SFP450H
CF2 SFU450A
CF3 BFU455CA
K1 G2V-2
VR204 20K
VR251 200K
VR252 1K
VR253 10K
VR254 10K
VR255 100K
VR151 100K
VR152 10K
VR153 100K
VR154 10K
VR155 100K
VR156 200K
VR1 5K VR
VR2 5K VR
VC101 VC102 VC103 VC104 VC105 VC106 VC107 VC108 VC109 VC110
Tr1 Tr2 Tr3 Tr4 Tr5 Tr6 Tr7 Tr8 Tr9 Tr10 Tr11
T101 T102 T103 T104
T1 T2 T3 T4 T5 T6 T7 T8
L101 L102 L103 L104 L151 L152 L153 L154 L155 L156 L157 L158 L159 L160 L161 L162 L163 L164 L165 L166 L167 L168 L169 L170 L171 L172 L173 L174 L175 L176 L177 L178 L179 L180 L181 L182 L183 L184 L185 L186 L187 L188 L189 L190